

## EAST Search History

| Ref # | Hits  | Search Query  | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|-----------------|------------------|---------|------------------|
| S1    | 288   | 380/268.ccls.   | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:24 |
| S2    | 333   | 380/239.ccls.   | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:12 |
| S3    | 428   | 380/210.ccls.   | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:13 |
| S4    | 1382  | 380/28.ccls.  | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:13 |
| S5    | 1003  | S1 S2 S3  | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:13 |
| S6    | 1     | "7277545".pn.   | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:26 |
| S7    | 23995 | scrambler scrambling<br>scramble  | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:42 |
| S8    | 708   | S7 and (disk disc dvd cd-<br>rom compact) and<br>(random pseudo-random)<br>and servo  | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:28 |
| S9    | 324   | S7 and (disk disc dvd cd-<br>rom compact) and<br>(random pseudo-random)<br>and servo and sector and<br>frame  | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:28 |
| S10   | 157   | S7 and (disk disc dvd cd-<br>rom compact) and<br>(random pseudo-random)<br>and servo and sector and<br>frame and (exclusive<br>"xor")                                   | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:36 |
| S11   | 324   | S7 and (disk disc dvd cd-<br>rom compact) and<br>(random pseudo-random)<br>and servo and sector and<br>frame  | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:36 |
| S12   | 280   | S7 and (disk disc dvd cd-<br>rom compact) and<br>(random pseudo-random)<br>and servo and sector and<br>frame and (ecc error adj<br>correction)                          | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:37 |
| S13   | 136   | S7 and (disk disc dvd cd-<br>rom compact) and<br>(random pseudo-random)<br>and servo and sector and<br>frame and (ecc error adj<br>correction) and (exclusive<br>"xor") | US-PGPUB; USPAT | OR               | ON      | 2007/10/15 06:56 |

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|-----|------|---|------------------------|----|----|---------------------|
| S14 | 5    | ("20020012528"   "5661707"   "6125100"   "6182263"   "6898171").PN.   | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/15<br>06:38 |
| S15 | 3747 | (scrambler scrambling scramble).clm.  | US-PGPUB; USPAT        | OR | ON | 2007/10/15<br>06:42 |
| S16 | 670  | (scrambler scrambling scramble).clm. and random.clm.  | US-PGPUB; USPAT        | OR | ON | 2007/10/15<br>06:42 |
| S17 | 137  | (scrambler scrambling scramble).clm. and random.clm. and frame. clm.  | US-PGPUB; USPAT        | OR | ON | 2007/10/15<br>06:42 |
| S18 | 24   | (scrambler scrambling scramble).clm. and random.clm. and frame. clm. and (exclusive "xor"). clm.  | US-PGPUB; USPAT        | OR | ON | 2007/10/15<br>06:43 |
| S19 | 3    | S18 and S13   | US-PGPUB; USPAT        | OR | ON | 2007/10/15<br>06:43 |
| S20 | 3    | S18 and S11   | US-PGPUB; USPAT        | OR | ON | 2007/10/15<br>06:43 |
| S21 | 2    | (US-6125100-\$ or US-5661707-\$).did.   | USPAT                  | OR | ON | 2007/10/15<br>06:51 |
| S22 | 1    | (US-6125100-\$ or US-5661707-\$).did. and scramb\$  | USPAT                  | OR | ON | 2007/10/15<br>06:51 |
| S23 | 116  | S7 and (disk disc dvd cd-rom compact) and (random pseudo-random) and servo and sector same frame and (ecc error adj correction) and (exclusive "xor")   | US-PGPUB; USPAT        | OR | ON | 2007/10/15<br>06:56 |
| S24 | 86   | S7 and (disk disc dvd cd-rom compact) and (random pseudo-random) and servo and sector same frame same (ecc error adj correction) and (exclusive "xor")  | US-PGPUB; USPAT        | OR | ON | 2007/10/15<br>06:56 |
| S25 | 0    | S7 and (disk disc dvd cd-rom compact) and (random pseudo-random) and servo and sector same frame same (ecc error adj correction) same (exclusive "xor") | US-PGPUB; USPAT        | OR | ON | 2007/10/15<br>06:56 |

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| S26 | 198622 | S7 and (disk disc dvd cd-rom compact) and (random pseudo-random) and servo and sector same frame same (ecc error adj correction) same (scrambler scrambling scramb\$4) (exclusive "xor")     | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>06:57 |
| S27 | 65     | S7 and (disk disc dvd cd-rom compact) and (random pseudo-random) and servo and sector same frame same (ecc error adj correction) same (scrambler scrambling scramb\$4) and (exclusive "xor") | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>06:57 |
| S28 | 1      | "5901159".pn. and (scramb\$)   | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:07 |
| S29 | 1      | "5901159".pn. and (scramb\$ random)  | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:20 |
| S30 | 1      | "5901159".pn. and (scramb\$ adj data)  | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:16 |
| S31 | 19     | random adj data adj generator same scrambl \$4   | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:17 |
| S32 | 19     | random adj data adj generator same scrambl \$4   | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:17 |
| S33 | 1      | "5661707".pn. and (scramb\$ random)  | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:21 |
| S34 | 8447   | shif\$3 same random same register  | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:22 |
| S35 | 0      | shif\$3 same random same register same higher-most   | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:22 |
| S36 | 248    | shif\$3 same random same register same higher  | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:22 |
| S37 | 56     | shif\$3 same random same register same higher same lower   | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:24 |
| S38 | 3      | shif\$3 same scrambl\$3 same register same higher same lower   | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:25 |
| S39 | 5      | ("5243303").URPN.  | USPAT           | OR | ON | 2007/10/15<br>07:25 |
| S40 | 314    | shif\$3 same noise same register same higher same lower  | US-PGPUB; USPAT | OR | ON | 2007/10/15<br>07:25 |

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|-----|------|--|--------------------|----|----|---------------------|
| S41 | 140  | shift\$3 same noise same register same higher same lower   | USPAT              | OR | ON | 2007/10/15<br>07:25 |
| S42 | 2930 | 15-bit   | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>12:39 |
| S43 | 33   | 15-bit with serial with register   | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>12:39 |
| S44 | 20   | 15-bit with serial with register and random  | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>12:39 |
| S45 | 2    | 15-bit with serial with register same random   | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>12:40 |
| S46 | 1572 | serial with register same random   | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>12:40 |
| S47 | 130  | serial adj register same random  | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>12:40 |
| S48 | 91   | serial adj register same random and clock and shift\$5   | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>15:54 |
| S49 | 33   | Wijesekera.in.   | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>15:54 |
| S50 | 1    | Wijesekera.in. and duminda.in.   | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>15:54 |
| S51 | 2    | kozelsky.in.   | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>16:07 |
| S52 | 46   | random adj2 generator and serial adj register  | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>16:07 |
| S53 | 1925 | random adj2 generator and register same shift\$4 same clock\$  | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>16:08 |
| S54 | 1185 | random adj2 generator and register same shift\$4 same clock\$ and (exclusive adj "or" "xor" "exor")                                      | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>16:08 |
| S55 | 400  | random adj2 generator and register same shift\$4 same clock\$ and (exclusive adj "or" "xor" "exor") and (scrambler scrambling scramble)  | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>16:09 |
| S56 | 117  | random adj2 generator and register same shift\$4 same clock\$ same (exclusive adj "or" "xor" "exor") and (scrambler scrambling scramble) | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>16:25 |
| S57 | 2930 | "15-bit"   | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>16:25 |
| S58 | 1508 | "15-bit" and random  | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>16:25 |

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|-----|-----|---|------------------------|----|----|---------------------|
| S59 | 234 | "15-bit" and random with generator  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:25 |
| S60 | 202 | "15-bit" and random with generator and shift  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:25 |
| S61 | 86  | "15-bit" and random with generator and shift and (exclusive adj "or" "xor")   | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:31 |
| S62 | 943 | random with generator. clm. and shift.clm.  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>17:05 |
| S63 | 494 | random with generator. clm. and shift.clm. and bit. clm.  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:31 |
| S64 | 110 | random with generator. clm. and shift.clm. and bit. clm. and exclusive.clm.   | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:31 |
| S65 | 99  | random with generator. clm. and shift.clm. and bit. clm. and exclusive.clm. and register.clm.                                     | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:32 |
| S66 | 23  | random with generator. clm. and shift.clm. and bit. clm. and exclusive.clm. and register.clm. and (scramble scrambler scrambling) | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:32 |
| S67 | 631 | lower adj register  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:57 |
| S68 | 43  | lower adj register and higher adj register  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:57 |
| S69 | 18  | lower adj register and higher adj register and shift  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:59 |
| S70 | 417 | left-shifting   | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:59 |
| S71 | 75  | left-shifting and "xor"   | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:59 |
| S72 | 65  | left-shifting and "xor" and register  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:59 |
| S73 | 39  | left-shifting and "xor" and register and random   | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>16:59 |
| S74 | 5   | ("20020012528"   "5661707"   "6125100"   "6182263"   "6898171"). PN.  | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/17<br>17:03 |
| S75 | 0   | random near generator near bit near (shift shifting)  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>17:05 |
| S76 | 0   | random\$3 near generat\$4 near bit near (shift shifting)  | US-PGPUB; USPAT        | OR | ON | 2007/10/17<br>17:06 |

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|-----|--------|---|--|----|----|---------------------|
| S77 | 1079   | random\$3 with general\$4 with bit with (shift shifting)                                | US-PGPUB; USPAT  | OR | ON | 2007/10/17<br>17:06 |
| S78 | 718014 | random\$3 near generat\$4 with bit with (shift shifting)                                | US-PGPUB; USPAT  | OR | ON | 2007/10/17<br>17:06 |
| S79 | 214    | random\$3 near generat\$4 with bit with (shift shifting)                                | US-PGPUB; USPAT  | OR | ON | 2007/10/17<br>17:06 |
| S80 | 130    | random\$3 near generat\$4 with bit with (shift shifting)                                | USPAT  | OR | ON | 2007/10/17<br>17:09 |
| S81 | 59     | noise near general\$4 with bit with (shift shifting)                                    | USPAT  | OR | ON | 2007/10/17<br>17:12 |
| S82 | 294    | "15-bit" adj2 register  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17<br>17:12 |
| S83 | 196    | "15-bit" adj2 register and generato\$4  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17<br>17:13 |
| S84 | 286    | "15-bit" adj2 register and generat\$4   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17<br>17:13 |
| S85 | 269    | "15-bit" adj2 register and generat\$4 and shift\$4                                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17<br>17:14 |
| S86 | 151    | "15-bit" adj2 register and generat\$4 and shift\$4 with left\$4                         | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17<br>19:41 |
| S87 | 331    | scrambler with (exclusive adj "or" "XOR")   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17<br>20:02 |
| S88 | 7      | ("4974184"   "5090035"   "5258936"   "5331581"   "5631962"   "5638309"   "5867409").PN. | US-PGPUB; USPAT; USOCR                                   | OR | ON | 2007/10/17<br>19:54 |
| S89 | 114    | scrambler with (exclusive adj "or" "XOR") with register                                 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/10/17<br>20:02 |
| S90 | 59     | scrambler with (exclusive adj "or" "XOR") with register                                 | USPAT  | OR | ON | 2007/10/17<br>20:03 |

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|-----|-----|---|--------------------|----|----|---------------------|
| S91 | 123 | scrambler.ti.   | USPAT              | OR | ON | 2007/10/17<br>20:08 |
| S92 | 0   | "15-bit adj register"   | USPAT              | OR | ON | 2007/10/17<br>20:08 |
| S93 | 100 | "15-bit" adj register   | USPAT              | OR | ON | 2007/10/17<br>20:08 |
| S94 | 17  | "15-bit" adj register and<br>random adj\$ generat\$   | USPAT              | OR | ON | 2007/10/17<br>20:10 |
| S95 | 1   | "5661707".pn. and<br>(generat\$ register shift\$<br>random\$ exclusive "xor")   | USPAT              | OR | ON | 2007/10/17<br>20:12 |
| S96 | 1   | "5661707".pn. and<br>(generat\$ register shift\$<br>random\$ exclusive "xor"<br>bit)  | USPAT              | OR | ON | 2007/10/17<br>20:15 |
| S97 | 147 | ("6067121" "5023612"<br>"5790058" "5835529"<br>"6028886" "6211805"<br>"6211805" "3886313"<br>"3809817" "4013837"<br>"4020285" "4790009"<br>"5606317" "5668879"<br>"5710754" "5881047"<br>"5898394" "5920625"<br>"5966377" "6005477"<br>"6226302" "6226302"<br>"6269129" "6314097"<br>"6327262" "6414983"<br>"6415005" "6765506"<br>"6873278" "6917321"<br>"6959152" "7031614"<br>"7054401" "7076063"<br>"7079572" "7092979"<br>"7106970" "7161972"<br>"7234097" RE39771<br>"7263121" "7277545"<br>"20010001617"<br>"20010049665"<br>"20020057730"<br>"20030007549"<br>"20030133498"<br>"20030161638"<br>"20030223582"<br>"20040130466"<br>"20040196973"<br>"20040196974"<br>"20040205352"<br>"20040219896"<br>"20040258014"<br>"20050008150"<br>"20050069028"<br>"20050094613"<br>"20050094615"<br>"20050108610"<br>"20050141410"<br>"20050213991"<br>"20050220457" | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>20:16 |

"20050226407"  
"2006002925"  
"20060123323"  
"20060188026"  
"4434323" "4773092"  
"4802219" "4852166"  
"5615340" "5751952"  
"5790666" "4278840"  
"4799257" "4807285"  
"4959863" "5032024"  
"5278907" "5491563"  
"6208737" "6321565"  
"6348884" "6385319"  
"6400760" "6417952"  
"6461583" "6867892"  
"6934387" "6947617"  
"7024559" "7062043"  
"7116892" "7199740"  
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"5455860" "5499339"  
"5526502" "5533054"  
"5608755" "5757909"  
"5768286" "5774548"  
"5793871" "5796781"  
"5812594" "5946355"  
"5973625" "6124813"  
"6167551" "3627928"  
"3624562" "3649915"  
"3925611" "3920894"  
"3784743" "4069392"  
"4091423" "4099027"  
"4337659" "4352190"  
"4368357" "4383322"  
"4454538" "4476566" ).  
pn.

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|-----|-----|--|--------------------|----|----|---------------------|
| S98 | 149 | ( "5862160" "4993029"<br>"6218977" "6218977"<br>"4304962" "4400054"<br>"4433425" "4864617"<br>"5023612" "5191609"<br>"5404142" "5455860"<br>"5499339" "5526502"<br>"5533054" "5608755"<br>"5757909" "5768286"<br>"5774548" "5790058"<br>"5793871" "5796781"<br>"5812594" "5946355"<br>"5973625" "6124813"<br>"6167551" "3827928"<br>"3624562" "3649915"<br>"3925611" "3920894"<br>"3886313" "3809817"<br>"3784743" "4013837"<br>"4020285" "4069392"<br>"4091423" "4099027"<br>"4337659" "4352190"<br>"4368357" "4383322"<br>"4454538" "4476566"<br>"4485674" "4502143"<br>"4529308" "4531022"<br>"4550341" "4558358"<br>"4565927" "4573166"<br>"4590519" "4603413"<br>"4604650" "4605961"<br>"4620294" "4771463"<br>"4775984" "4782488"<br>"4783699" "4790009"<br>"4790010" H000570<br>"4803680" "4809363"<br>"4811394" "4827509"<br>"4827513" "4870682"<br>"4875021" "4890303"<br>"4903298" "4912760"<br>"4914696" "4922537"<br>"4924516" "4930139"<br>"4937867" "4965766"<br>"4965881" "5003592"<br>"5008934" "5010333"<br>"5014315" "5027372"<br>"5058160" "5054069"<br>"5031129" "5029207"<br>"5177786" "5179592"<br>"5185799" "5212558"<br>"5214694" "5216714"<br>"5222141" "5225772"<br>"5231664" "5231665"<br>"5235645" "5237590"<br>"5237610" "5239581"<br>"5245661" "5258941"<br>"5265160" "5267316"<br>"5270809" "5278906"<br>"5278908" "5282249"<br>"5283831" "5289541"<br>"5293423" "5293633"<br>"5309514" "5317635" | US-PGPUB;<br>USPAT | OR | ON | 2007/10/17<br>20:16 |
|-----|-----|--|--------------------|----|----|---------------------|

|      |     |   |   |    |    |                     |
|------|-----|---|---|----|----|---------------------|
|      |     |   | "5319709" "5321754"<br>"5323358" "5323462"<br>"5323463" "5333197"<br>"5335275" "5341399"<br>"5341424" "5355409"<br>"5355415" "5357249"<br>"5361301" "5361323"<br>"5369703" "5377265"<br>"5387907" "5392254"<br>"5392354" "5410600"<br>"5412720" "5412724"<br>"5420887" "5426699"<br>"5430707" "5444561"<br>"5448640" "5461310"<br>"5463689" "5467397" ).<br>pn. |    |    |                     |
| S99  | 250 | S97 S98   | US-PGPUB;<br>USPAT  | OR | ON | 2007/10/17<br>20:16 |
| S100 | 249 | S99 and (general\$<br>register shift\$ random\$<br>exclusive "xor" bit)   | US-PGPUB;<br>USPAT  | OR | ON | 2007/10/17<br>20:16 |
| S101 | 15  | S99 and (generat\$ same<br>register same shift\$ same<br>random\$ same (exclusive<br>"xor") same bit)   | US-PGPUB;<br>USPAT  | OR | ON | 2007/10/17<br>20:17 |
| S102 | 0   | "6577647".pn. and scramb<br>\$  | US-PGPUB;<br>USPAT  | OR | ON | 2007/10/17<br>20:24 |
| S103 | 1   | "6577647".pn. and noise   | US-PGPUB;<br>USPAT  | OR | ON | 2007/10/17<br>20:29 |
| S104 | 1   | "6577647".pn. and<br>(exclusive "xor")  | US-PGPUB;<br>USPAT  | OR | ON | 2007/10/17<br>20:30 |
| S105 | 1   | "6577647".pn. and<br>(exclusive "xor" shift<br>register)  | US-PGPUB;<br>USPAT  | OR | ON | 2007/10/17<br>20:30 |
| S106 | 1   | "7277545".pn.   | US-PGPUB;<br>USPAT  | OR | ON | 2008/03/05<br>10:39 |
| S107 | 49  | ("4304962"   "4993029"  <br>"6167551"   "4433425"  <br>"4476566"   "4771463"  <br>"4890303"   "5191609"  <br>"5335275"   "5404142"  <br>"5463689"   "5515437"  <br>"5561713"   "5590194"  <br>"5710754"   "5790058"  <br>"6124813"   "6226302"  <br>"6226302"   "3624562"  <br>"3920894"   "3886313"  <br>"3809817"   "4013837"  <br>"4020285"   "4337659"  <br>"4485674"   "4531022"  <br>"4565927"   "4590519"  <br>"4604650"   "4605961"  <br>"4782488"   "4811394"  <br>"4827513"   "4870682"  <br>"4912760"   "4924516"  <br>"4965881"   "5031129" | US-PGPUB;<br>USPAT  | OR | ON | 2008/03/05<br>10:44 |

|      |     |  |                 |    |    |                  |
|------|-----|--|-----------------|----|----|------------------|
|      |     | ["5177786"   "5214694"   "5235645"   "5278906"   "5283831"   "5293423"   "5321754"   "5322358"   "5357249"   "5361323"). PN.   |                 |    |    |                  |
| S108 | 296 | 380/268.ccls.  | US-PGPUB; USPAT | OR | ON | 2008/03/05 10:44 |
| S109 | 50  | ("20040196973"   "20040196974"   "20060206780"   "20030145196"   "20030229886"   "20050198504"   "20050198505"   "20040151090"   "20060093147"   "20050040975"   "20040130466"   "20060029225"   "20030156720"   "20030223582"   "20040128589"   "20050154966"   "20060115087"   "20020064277"   "20050008036"   "20050008150"   "20060050878"   "20060233360"   "20070166038"   "20010016862"   "20010056562"   "20060092772"   "20060133468"   "20010010722"   "20020051542"   "20070121946"   "20020146131"   "20050063489"   "20050073945"   "20060002454"   "20060149678"   "20060156412"   "20020031219"   "20040193364"   "20060072908"   "20020184578"   "20010008001"   "20070258488"   "20010033663"   "20050078016"   "20070076873"   "20030179631"   "20030026323"   "20060126833"   "20020104055"   "20010036274"). PN. | US-PGPUB; USPAT | OR | ON | 2008/03/05 10:47 |

|      |      |   |                    |    |    |                     |
|------|------|---|--------------------|----|----|---------------------|
| S110 | 458  | 380/210.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/03/05<br>10:50 |
| S111 | 351  | 380/239.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/03/05<br>10:51 |
| S112 | 3493 | scrambl\$ with random   | US-PGPUB;<br>USPAT | OR | ON | 2008/03/05<br>11:28 |
| S113 | 59   | scrambl\$ with random<br>with cycle   | US-PGPUB;<br>USPAT | OR | ON | 2008/03/05<br>11:28 |
| S114 | 13   | scrambl\$ with random<br>with cycle with (sector<br>frame)  | US-PGPUB;<br>USPAT | OR | ON | 2008/03/05<br>11:28 |
| S115 | 19   | montgomery with<br>polynomial   | US-PGPUB;<br>USPAT | OR | ON | 2008/03/06<br>09:56 |
| S116 | 119  | koc.in.   | US-PGPUB;<br>USPAT | OR | ON | 2008/03/06<br>10:11 |
| S117 | 9    | koc.in. and montgomery  | US-PGPUB;<br>USPAT | OR | ON | 2008/03/06<br>10:11 |
| S118 | 297  | 380/268.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:44 |
| S119 | 354  | 380/239.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:46 |
| S120 | 462  | 380/210.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:47 |
| S121 | 1487 | 380/28.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:48 |
| S122 | 147  | ("6067121" "5023612"<br>"5790058" "5835529"<br>"6028868" "6211805"<br>"6211805" "3886313"<br>"3809817" "4013837"<br>"4020285" "4790009"<br>"5606317" "5668879"<br>"5710754" "5881047"<br>"5898394" "5920625"<br>"5966377" "6005477"<br>"6226302" "6226302"<br>"6269129" "6314097"<br>"6327262" "6414983"<br>"6415005" "6765506"<br>"6873278" "6917321"<br>"6959152" "7031614"<br>"7054401" "7076063"<br>"7079572" "7092979"<br>"7106970" "7161972"<br>"7234097" RE39771<br>"7263121" "7277545"<br>"7339987" "4434323"<br>"4773092" "4802219"<br>"4852166" "5615340"<br>"5751952" "5790666"<br>"4278840" "4799257"<br>"4807285" "4959863"<br>"5032024" "5278907"<br>"5491563" "6208737") | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:52 |

"6321565" "6348884"  
"6385319" "6400760"  
"6417952" "6461583"  
"6867892" "6934387"  
"6947617" "7024559"  
"7062043" "7116892"  
"7199740" "7292345"  
"7313190" "6072185"  
"5343204" "4797814"  
"4941088" "5581688"  
"5200914" "5507024"  
"5511212" "5613091"  
"6138123" "4852043"  
"5008618" "5182678"  
"5267349" "5321699"  
"5386422" "5469444"  
"6202099" "6236615"  
"4394997" "4417520"  
"4763004" "4892389"  
"4949081" "4990905"  
"5202755" "5406526"  
"5608848" "5642111"  
"5652880" "5708620"  
"5732113" "5748554"  
"5748787" "5793983"  
"5805822" "5812998"  
"5828507" "5847992"  
"5852822" "5862008"  
"5864867" "5930064"  
"5930061" "5948082"  
"6009235" "6078566"  
"6088507" "6215783"  
"6215783" "6236942"  
"4270206" "4315315"  
"4499461" "4533993"  
"4853779" "4870286"  
"4924408" "4951152"  
"5208689" "5222201"  
"5247396" "5260781"  
"5296870" "5317134"  
"5319743" "5351226"  
"5376965" "5379127"  
"5440547" "5446918"  
"5463577" "5500908"  
"5521940" "5530655"  
"5542074" "5546549" ).  
pn.

|      |     |  |                    |    |    |                     |
|------|-----|--|--------------------|----|----|---------------------|
| S123 | 147 | ( "6067121" "5023612"<br>"5790058" "5835529"<br>"6028886" "6211805"<br>"6211805" "3886313"<br>"3809817" "4013837"<br>"4020285" "4790009"<br>"5606317" "5668879"<br>"5710754" "5881047"<br>"5898394" "5920625"<br>"5966377" "6005477"<br>"6226302" "6226302"<br>"6269129" "6314097"<br>"6327262" "6414983"<br>"6415005" "6765506"<br>"6873278" "6917321"<br>"6959152" "7031614"<br>"7054401" "7076063"<br>"7079572" "7092979"<br>"7106970" "7161972"<br>"7234097" RE39771<br>"7263121" "7277545"<br>"7339987" "4434323"<br>"4773092" "4802219"<br>"4852166" "5615340"<br>"5751952" "5790666"<br>"4278840" "4799257"<br>"4807285" "4959863"<br>"5032024" "5278907"<br>"5491563" "6208737"<br>"6321565" "6348884"<br>"6385319" "6400760"<br>"6417952" "6461583"<br>"6867892" "6934387"<br>"6947617" "7024559"<br>"7062043" "7116892"<br>"7199740" "7292345"<br>"7313190" "6072185"<br>"5343204" "4797814"<br>"4941088" "5581688"<br>"5200914" "5507024"<br>"5511212" "5613091"<br>"6138123" "4852043"<br>"5008618" "5182678"<br>"5267349" "5321699"<br>"5386422" "5469444"<br>"6202099" "6236615"<br>"4394997" "4417520"<br>"4763004" "4892389"<br>"4949081" "4990905"<br>"5202755" "5406526"<br>"5608848" "5642111"<br>"5652880" "5708620"<br>"5732113" "5748554"<br>"5748787" "5793983"<br>"5805822" "5812998"<br>"5828507" "5847992"<br>"5852822" "5862008"<br>"5864867" "5930064"<br>"5930061" "5948082"<br>"6009235" "6078566" | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:52 |
|------|-----|--|--------------------|----|----|---------------------|

|      |     |   |                    |    |    |                     |
|------|-----|---|--------------------|----|----|---------------------|
|      |     | ["6088507" "6215783"<br>"6215783" "6236942"<br>"4270206" "4315315"<br>"4499461" "4533993"<br>"4853779" "4870286"<br>"4924408" "4951152"<br>"5208689" "5222201"<br>"5247396" "5260781"<br>"5296870" "5317134"<br>"5319743" "5351226"<br>"5376965" "5379127"<br>"5440547" "5446918"<br>"5463577" "5500908"<br>"5521940" "5530655"<br>"5542074" "5546549" ].<br>pn.  |                    |    |    |                     |
| S124 | 149 | ("5862160" "4993029"<br>"6218977" "6218977"<br>"4304962" "4400054"<br>"4433425" "4864617"<br>"5023612" "5191609"<br>"5404142" "5455860"<br>"5499339" "5526502"<br>"5533054" "5608755"<br>"5757909" "5768286"<br>"5774548" "5790058"<br>"5793871" "5796781"<br>"5812594" "5946355"<br>"5973625" "6124813"<br>"6167551" "3627928"<br>"3624562" "3649915"<br>"3925611" "3920894"<br>"3886313" "3809817"<br>"3784743" "4013837"<br>"4020285" "4069392"<br>"4091423" "4099027"<br>"4337659" "4352190"<br>"4368357" "4383322"<br>"4454538" "4476566"<br>"4485674" "4502143"<br>"4529308" "4531022"<br>"4550341" "4558358"<br>"4565927" "4573166"<br>"4590519" "4603413"<br>"4604650" "4605961"<br>"4620294" "4771463"<br>"4775984" "4782488"<br>"4783699" "4790009"<br>"4790010" H000570<br>"4803680" "4809363"<br>"4811394" "4827509"<br>"4827513" "4870682"<br>"4875021" "4890303"<br>"4903298" "4912760"<br>"4914696" "4922537"<br>"4924516" "4930139"<br>"4937867" "4965766"<br>"4965881" "5003592"<br>"5008934" "5010333"<br>"5014315" "5027372" | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:52 |

|      |     |  |                    |    |    |                     |
|------|-----|--|--------------------|----|----|---------------------|
|      |     | ["5058160" "5054069"<br>"5031129" "5029207"<br>"5177786" "5179592"<br>"5185799" "5212558"<br>"5214694" "5216714"<br>"5222141" "5225772"<br>"5231664" "5231665"<br>"5235645" "5237590"<br>"5237610" "5239581"<br>"5245661" "5258941"<br>"5265160" "5267316"<br>"5270809" "5278906"<br>"5278908" "5282249"<br>"5283831" "5289541"<br>"5293423" "5293633"<br>"5309514" "5317635"<br>"5319709" "5321754"<br>"5323358" "5323462"<br>"5323463" "5333197"<br>"5335275" "5341399"<br>"5341424" "5355409"<br>"5355415" "5357249"<br>"5361301" "5361323"<br>"5369703" "5377265"<br>"5387907" "5392254"<br>"5392354" "5410600"<br>"5412720" "5412724"<br>"5420887" "5426699"<br>"5430707" "5444561"<br>"5448640" "5461310"<br>"5463689" "5467397" ].<br>pn. |                    |    |    |                     |
| S125 | 150 | ("20040196973"<br>"20040196974"<br>"20030223582"<br>"20040130466"<br>"20060029225"<br>"20050008150"<br>"20040128589"<br>"20070258488"<br>"20050040975"<br>"20050063489"<br>"20060233360"<br>"20060133468"<br>"20020037127"<br>"20030007635"<br>"20030210783"<br>"20060050875"<br>"20010049665"<br>"20030161638"<br>"20040205352"<br>"20050094615"<br>"20050108610"<br>"20050141410"<br>"20050213991"<br>"20050220457"<br>"20050204261"<br>"20010001617"<br>"20060072430"<br>"20030156720"  | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:52 |

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"20050124865"  
"20050163375"  
"20050278357"  
"20060095521"  
"20060098752"  
"20060129805"  
"20060143453"  
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"20070266067"  
"20020051542"  
"20070121946"  
"20010056562"  
"20020062469"  
"20020104055"  
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"20070297603"  
"20010033444"  
"20020003675" ).pn.

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|------|-----|---|--------------------|----|----|---------------------|
| S126 | 149 | ( "5862160" "4993029"<br>"6218977" "6218977"<br>"4304962" "4400054"<br>"4433425" "4864617"<br>"5023612" "5191609"<br>"5404142" "5455860"<br>"5499339" "5526502"<br>"5533054" "5608755"<br>"5757909" "5768286"<br>"5774548" "5790058"<br>"5793871" "5796781"<br>"5812594" "5946355"<br>"5973625" "6124813"<br>"6167551" "3627928"<br>"3624562" "3649915"<br>"3925611" "3920894"<br>"3886313" "3809817"<br>"3784743" "4013837"<br>"4020285" "4069392"<br>"4091423" "4099027"<br>"4337659" "4352190"<br>"4368357" "4383322"<br>"4454538" "4476566"<br>"4485674" "4502143"<br>"4529308" "4531022"<br>"4550341" "4558358"<br>"4565927" "4573166"<br>"4590519" "4603413"<br>"4604650" "4605961"<br>"4620294" "4771463"<br>"4775984" "4782488"<br>"4783699" "4790009"<br>"4790010" "H000570<br>"4803680" "4809363"<br>"4811394" "4827509"<br>"4827513" "4870682"<br>"4875021" "4890303"<br>"4903298" "4912760"<br>"4914696" "4922537"<br>"4924516" "4930139"<br>"4937867" "4965766"<br>"4965881" "5003592"<br>"5008934" "5010333"<br>"5014315" "5027372"<br>"5058160" "5054069"<br>"5031129" "5029207"<br>"5177786" "5179592"<br>"5185799" "5212558"<br>"5214694" "5216714"<br>"5222141" "5225772"<br>"5231664" "5231665"<br>"5235645" "5237590"<br>"5237610" "5239581"<br>"5245661" "5258941"<br>"5265160" "5267316"<br>"5270809" "5278906"<br>"5278908" "5282249"<br>"5283831" "5289541"<br>"5293423" "5293633"<br>"5309514" "5317635" | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:53 |
|------|-----|---|--------------------|----|----|---------------------|

|      |     |  |                    |    |    |                     |
|------|-----|--|--------------------|----|----|---------------------|
|      |     | <p>["5319709" "5321754"<br/>     "5323358" "5323462"<br/>     "5323463" "5333197"<br/>     "5335275" "5341399"<br/>     "5341424" "5355409"<br/>     "5355415" "5357249"<br/>     "5361301" "5361323"<br/>     "5369703" "5377265"<br/>     "5387907" "5392254"<br/>     "5392354" "5410600"<br/>     "5412720" "5412724"<br/>     "5420887" "5426699"<br/>     "5430707" "5444561"<br/>     "5448640" "5461310"<br/>     "5463689" "5467397"].<br/>     pn.</p>   |                    |    |    |                     |
| S127 | 439 | S122 S123 S124 S125<br>S126  | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:53 |
| S128 | 50  | <p>["7092979"   "7277545"  <br/>     "4304962"   "4771463"  <br/>     "4811394"   "4965881"  <br/>     "5323358"   "5377265"  <br/>     "5946398"   "6122376"  <br/>     "5031129"   "5283831"  <br/>     "5920625"   "7035412"  <br/>     "6167551"   "6035044"  <br/>     "7075461"   "4993029"  <br/>     "4433425"   "4476566"  <br/>     "5177786"   "5191609"  <br/>     "5335275"   "5404142"  <br/>     "5463689"   "5515437"  <br/>     "5561713"   "5590194"  <br/>     "5898394"   "6124813"  <br/>     "3920894"   "3886313"  <br/>     "4013837"   "4020285"  <br/>     "4531022"   "4590519"  <br/>     "4604650"   "4605961"  <br/>     "4782488"   "4870682"  <br/>     "4912760"   "5235645"  <br/>     "5321754"   "5448640"  <br/>     "5467397"   "5473696"  <br/>     "5488658"   "5533033"  <br/>     "5539746"   "5563948").<br/>     PN.</p> | US-PGPUB;<br>USPAT | OR | ON | 2008/04/01<br>05:54 |

|      |    |  |                 |    |    |                  |
|------|----|--|-----------------|----|----|------------------|
| S129 | 50 | ({"20040196973"   "20040196974"   "20060206780"   "20030145196"   "20030229886"   "20050198504"   "20050198505"   "20040151090"   "20060093147"   "20050040975"   "20040130466"   "20060029225"   "20030156720"   "20030223582"   "20040128589"   "20050154966"   "20060115087"   "20020064277"   "20050008036"   "20050008150"   "20060050878"   "20060233360"   "20070166038"   "20010016862"   "20010056562"   "20060092772"   "20010010722"   "20060133468"   "20020051542"   "20070121946"   "20020146131"   "20050063489"   "20050073945"   "20060002454"   "20060149678"   "20060156412"   "20080069253"   "20020031219"   "20040193664"   "20060072908"   "20010008001"   "20020184578"   "20070258488"   "20010033363"   "20050078016"   "20070076873"   "20030026323"   "20030179631"   "20060126833"   "20020104055").PN. | US-PGPUB; USPAT | OR | ON | 2008/04/01 05.54 |
| S130 | 1  | "5901159".pn. and cycle  | US-PGPUB; USPAT | OR | ON | 2008/04/01 06.15 |

|      |    |   |                 |    |    |                     |
|------|----|---|-----------------|----|----|---------------------|
| S131 | 50 | {"4091423" "4271513" "4596898" "4639548" "4663500" "4782488" "5031129" "5077753" "5202755" "5278907" "5420887" "5499339" "5500892" "5519696" "5561713" "5629983" "5638512" "5663981" "5710754" "5715515" "5848157" "5881154" "5943283" "5946398" "6122376" "6249582" "6557136" "6570521" "6810387" "6823488" "6946981" "7046809" "7215774" "7227949" "7277545" "7340511" "20020062469" "20020104055" "20020146131" "20030048900" "20030145196" "20040196974" "20040198105" "20040208199" "20040208565" "20040213331" "20050182948" "20050198505" "20050220172" "20060107172").PN. | US-PGPUB; USPAT | OR | ON | 2008/08/05<br>18:44 |
| S132 | 49 | {"4304962" "4993029" "6167551" "4433425" "4476566" "4771463" "4890303" "5191609" "5335275" "5404142" "5463689" "5515437" "5561713" "5590194" "5710754" "5790058" "6124813" "6226302" "6226302" "3624562" "3920894" "3886313" "3809817" "4013837" "4020285" "4337659" "4485674" "4531022" "4565927" "4590519" "4604650" "4605961" "4782488" "4811394" "4827513" "4870682" "4912760" "4924516" "4965881" "5031129" "5177786" "5214694" "5235645" "5278906" "5283831" "5293423" "5321754" "5323358" "5357249" "5361323").PN.   | US-PGPUB; USPAT | OR | ON | 2008/08/05<br>18:46 |

|      |       |   |                 |    |    |                     |
|------|-------|---|-----------------|----|----|---------------------|
| S133 | 95    | S131 S132   | US-PGPUB; USPAT | OR | ON | 2008/08/05<br>18:46 |
| S134 | 1     | scrambl\$ near6 random\$ near6 (cycle period frequency) near7 sector near8 (ecc error adj correction) | US-PGPUB; USPAT | OR | ON | 2008/08/05<br>18:47 |
| S135 | 6     | scrambl\$ near6 random\$ near6 (cycle period frequency) near7 sector                                  | US-PGPUB; USPAT | OR | ON | 2008/08/05<br>18:48 |
| S136 | 372   | 380/239.ccls.   | US-PGPUB; USPAT | OR | ON | 2008/08/05<br>18:55 |
| S137 | 307   | 380/268.ccls.   | US-PGPUB; USPAT | OR | ON | 2008/08/06<br>10:29 |
| S138 | 487   | 380/210.ccls.   | US-PGPUB; USPAT | OR | ON | 2008/08/06<br>10:30 |
| S139 | 1587  | 380/28.ccls.  | US-PGPUB; USPAT | OR | ON | 2008/08/06<br>10:30 |
| S140 | 372   | 380/239.ccls.   | US-PGPUB; USPAT | OR | ON | 2008/08/06<br>10:32 |
| S141 | 436   | random adj data near8 register  | US-PGPUB; USPAT | OR | ON | 2008/08/06<br>11:27 |
| S142 | 21    | random adj data near8 register near8 (exclusive "xor")  | US-PGPUB; USPAT | OR | ON | 2008/08/06<br>11:27 |
| S143 | 0     | ("5579279").URPN.   | USPAT           | OR | ON | 2008/08/06<br>11:33 |
| S144 | 6     | ("5222142").URPN.   | USPAT           | OR | ON | 2008/08/06<br>11:34 |
| S145 | 307   | 380/268.ccls.   | US-PGPUB; USPAT | OR | ON | 2008/08/08<br>08:17 |
| S146 | 372   | 380/239.ccls.   | US-PGPUB; USPAT | OR | ON | 2008/08/08<br>08:17 |
| S147 | 487   | 380/210.ccls.   | US-PGPUB; USPAT | OR | ON | 2008/08/08<br>08:18 |
| S148 | 1591  | 380/28.ccls.  | US-PGPUB; USPAT | OR | ON | 2008/08/08<br>08:18 |
| S149 | 12606 | reed adj solomon reed-solomon   | US-PGPUB; USPAT | OR | ON | 2008/08/08<br>08:20 |
| S150 | 417   | S149 with scrambl\$ with data   | US-PGPUB; USPAT | OR | ON | 2008/08/08<br>08:21 |
| S151 | 0     | scrambling adj data   | US-PGPUB; USPAT | OR | ON | 2008/08/08<br>08:21 |
| S152 | 1520  | scrambling adj data   | US-PGPUB; USPAT | OR | ON | 2008/08/08<br>08:21 |
| S153 | 372   | scrambling adj data near8 (sector frame block cycle)  | US-PGPUB; USPAT | OR | ON | 2008/08/08<br>08:22 |

|      |     |   |                    |    |    |                     |
|------|-----|---|--------------------|----|----|---------------------|
| S154 | 12  | scrambling adj data near8<br>(sector frame block cycle)<br>near8 (ecc error adj<br>correct\$)           | US-PGPUB;<br>USPAT | OR | ON | 2008/08/08<br>08:22 |
| S155 | 532 | scramb\$ near4 data<br>near8 (sector frame<br>block) near8 (ecc error<br>adj correct\$)                 | US-PGPUB;<br>USPAT | OR | ON | 2008/08/08<br>08:24 |
| S156 | 3   | scramb\$ near4 data<br>near8 (sector frame<br>block) near8 (cycle) near8<br>(ecc error adj correct\$)   | US-PGPUB;<br>USPAT | OR | ON | 2008/08/08<br>08:25 |
| S157 | 532 | scramb\$ near4 data<br>near8 (sector frame<br>block) near8 (ecc error<br>adj correct\$)                 | US-PGPUB;<br>USPAT | OR | ON | 2008/08/08<br>08:25 |
| S158 | 4   | scramb\$ near4 data<br>near8 (sector frame<br>block) near8 (ecc error<br>adj correct\$) near8<br>random | US-PGPUB;<br>USPAT | OR | ON | 2008/08/08<br>08:26 |
| S159 | 5   | scramb\$ near4 data<br>near8 (sector frame<br>block) near8 (ecc error<br>adj correct\$) with random     | US-PGPUB;<br>USPAT | OR | ON | 2008/08/08<br>08:26 |

8/8/2008 10:49:30 AM

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